[Medicinski fakultet u Rijeci]

**Curriculum**
**2021/2022**

[Za kolegij]

# Clinical Pharmacology

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|---|---|
| Study program: | **Medical Studies in English (R)**<br>[Sveučilišni integrirani prijediplomski i diplomski studij] |
| Department: | **[Zavod za temeljnu i kliničku farmakologiju s toksikologijom]** |
| Course coordinator: | **prof. dr. sc. Vitezić Dinko, dr. med.** |
| Year of study: | **6** |
| ECTS: | **3** |
| Incentive ECTS: | **0 (0.00%)** |
| Foreign language: | **Possibility of teaching in a foreign language** |

## Course information:

The Clinical Pharmacology course is a compulsory course at the sixth year of the Integrated Undergraduate and Graduate University Study of Medicine and consists of 10 hours of lectures and 45 hours of seminars, a total of 55 hours (3 ECTS). The course is conducted in the premises of the Faculty of Medicine, Clinical Hospital Center and the building of the Faculty of Health Studies. The aim of the course is to enable students to acquire knowledge of clinical pharmacology principles that are necessary for the implementation of rational pharmacotherapy. The student should acquire knowledge about the latest achievements in the field of medicines and the conditions prevailing in the health care system, which are important for the rational use of medicines (eg. lists of medicines, financial limits for medicines, patient's participation for medicines). The content of the course is as follows: A. General principles of clinical pharmacology - drug discovery and development, pharmacoeconomics, pharmacoepidemiology, drug side effects and interactions, principles of clinical drug use in certain groups of patients, pharmacogenomics (individualization of therapy) and basic principles of toxicology. B. Rational pharmacotherapy of selected clinical entities - this part of the course will cover the use of drugs in the treatment of the most common diseases and conditions, characterized with high utilisation and a significant share of financial consumption (eg. antimicrobial drugs, antihypertensives, hypolipemics, benzodiazepines, drugs for diabetes, pain treatment, supportive treatment of malignant diseases, etc.). Teaching: Classes are held in the form of lectures and seminars. Estimated duration of classes is up to a total of 2 weeks. During the seminar, the teacher discusses with students the specific principles of clinical pharmacology and the treatment of special clinical entities. During the classes there will be a written test and a written final exam. By completing all teaching activities and passing the above tests, the student acquires 3 ECTS credits. Up to 40% of classes can be held online and students will be informed about it. If a student justifiably or unjustifiably misses more than 30% of classes in which mandatory attendance monitoring is performed (seminars), he / she cannot continue the course and loses the possibility for the final exam. He thus collected 0 ECTS credits and was graded F.

## List of assigned reading:

Katzung BG, Masters SB, Trevor AJ. Basic and Clinical Pharmacology. McGraw Hill / Medical

## List of optional reading:

Francetić I, Vitezić D. Klinička farmakologija. Medicinska naklada, Zagreb 2014. Laurence DR, Bennett PN, Brown MJ. Clinical Pharmacology. Churchill Livingstone

## Curriculum:

## Student obligations:

Students are required for regular attendance and active participation in all forms of teaching.

## Exam (exam taking, description of the written/oral/practical part of the exam, point distribution, grading criteria):

**ECTS credit grading syste**m:
Student assessment is carried out according to the current Regulations on Studies of the University of Rijeka.
Student work will be evaluated and graded during classes and at the final exam. Out of a total of 100 points, during the classes the student can achieve 70 points, and at the final exam 30 points.
Student assessment is performed using ECTS (A-E) and number system (1-5). Grading in the ECTS system is performed by absolute distribution.
Out of a total of 100 points, during the classes the student can achieve 70 points, and at the final exam 30 points. During classes, the result achieved by solving the compulsory test is evaluated (up to a maximum of 70 points).
The final exam can be taken by those students who have achieved at least 50% of the maximum possible points during the classes.
Students who have achieved less than 35 points during classes are not eligible to take the final exam (final grade F). The final exam is written.

**I. During classes, the following is evaluated (maximum up to 70 points):**
**Mandatory test (up to 70 points)**
The written test consists of 70 questions, and carries 70 points (each correctly solved question carries one grade).
The material of the compulsory test contains questions that cover topics from general and special clinical pharmacology covered by lectures and seminars.

**II. Final exam (total 30 points):**
**Who can take the final exam:**
Students who have achieved more than 50% of points during the course must take the final written exam where they can achieve a maximum of 30 points.

**Who cannot take the final exam:**
Students who have achieved less than 35 points during the class do not have the right to take the final exam (enroll the course the next year).

**The final exam is a written exam.** Carries 30 points (range 15-30).
The written test consists of 50 questions (the criterion for obtaining grades is 50% of correctly solved questions), and it consists of questions that cover the entire content of the course.

Correct answers obtained on the written test are converted into points as follows:

| **Correct answers Points** | **Points** |
|---|---|
| 0-25 | 0 |
| 26 | 15 |
| 27 | 16 |
| 28 | 17 |
| 29 | 18 |
| 30 | 19 |
| 31 | 20 |
| 32 | 21 |
| 33,34 | 22 |
| 35,36 | 23 |
| 37,38 | 24 |
| 39,40 | 25 |
| 41,42 | 26 |
| 43,44 | 27 |
| 45,46 | 28 |
| 47,48 | 29 |
| 49,50 | 30 |

To pass the final exam and for the final grade (including adding up the previously obtained points during classes) the student must have a positive grade on the final exam and achieve a minimum of 15 points

(50%).
**The final grade of the exam is formed on the basis of the achieved results, and in the following way:**
90-100% (points) A (excellent, 5)
75-89,9% ( points ) B (very good, 4)
60-74,9% ( points ) C ( good, 3)
50-59,9% ( points ) D ( pass, 2)
0-49,9% ( points ) F ( fail, 1)

### Other notes (related to the course) important for students:

Teaching content and all information related to the course as well as exam dates can be found on the web pages.

### COURSE HOURS 2021/2022

Clinical Pharmacology

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### List of lectures, seminars and practicals:

### EXAM DATES (final exam):

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